

Docket No. F-7998

Ser. No. 10/705,629

In the above-described embodiment, the rectifier commutator was described as being tubular; however, a flat rectifier commutator such that the rectifier commutator segment of the printed wiring board is noble-metal plated with a metal alloy (containing cobalt to improve hardness) and an axial direction slide contact brush may of course be used.

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ABSTRACT

A vibration motor has The inventors focused their attention on the disposition configuration of air core coils so that, while vibrations through centrifugal force are appropriately generated, high efficiency is obtained and assembly is easy, and, by disposing an eccentric weight in such a constitution, a large amount of vibration is obtained. To achieve this, an eccentric rotor having a plurality of armature coils having at least one winding-type air core armature coil [[is]] disposed in an eccentric manner on a printed wiring board. A [[; a]] commutator is disposed on a first side of the printed wiring board, and a resin shaft holder is disposed on the second side, outward of this resin holder, the

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~~air-core armature coils are disposed and a sintered oil-impregnated bearing is contained in the shaft holder; an~~ An eccentric weight is disposed so as not to overlap with at least one winding-type air-core armature coil and at least two of the air-core armature coils overlap. ~~a connector terminal part is provided so as not to overlap with the air-core armature coils; a shaft supporting this eccentric rotor is fixed by laser welding beforehand to the casing from the outside so that a first end thereof does not project outside of a housing; a~~ A magnet [(that)] imparts a magnet field to the eccentric rotor via an axial air gap, a brush that imparts electric power to the air-core armature coils via the commutator ~~—, and a housing comprising the casing and a bracket and containing the aforementioned are provided; and after the eccentric rotor is mounted on a second end of the shaft so as to be rotatable, [the shaft] is received and stopped by the bracket and prevented from moving in the radial direction.~~